

Figure 1. (FER-196) Index map showing faults and selected locations. Tabulations 1-21 from Treiman (1984; personal communication, 1985). Locations 22-25 and 35-64 from this report. See text for discussion.

EXPLANATION

- Faults: dashed where location is uncertain, dotted where existence is inferred
- Fault exposures described in text (Treiman, 1984)
- Indicates northernmost extent of exposures of the Pliocene age San Diego Formation
- Fault trace on acoustic basement (Western Geophysical, 1972)

Faulting, shown in greatest detail for the Rose Canyon fault zone, includes significant Quaternary and pre-Quaternary faults. Major data sources included Clarke and others (1984), In preparation, Crane (1977), Kennedy (1975), Kennedy, Clarke, and others (1980), Kennedy, Greene, and others (1980), Kennedy and Tan (1977), Kennedy and others (1975b), and Kennedy and Meloy (1980). Other sources which provided detail within the fault zone and general faulting elsewhere included Eisenberg (1983), Gastil and others (1975), Hannan (1975), Jennings (1975), Kies (1979), Liem (1977), Lorber (1983), Melius (1979), Weber (1982), Wilson (1972), and Woodward-Clyde (1981). It is not intended to delineate faults in detail outside the Rose Canyon fault zone. Above references in Treiman (1984)

Faults and fault-like features in this report, shown in red.

- Faults. Bar and ball on downdropped side.
- Cut bank of drainage channel. Hachures on eroded side.
- Beach ridge. Squares on steepest scarp-like face.
- CD — Fault features.
B=Bench
N=Notch
CD=Closed Depression
OD=Offset Drainage
- 34 — Location discussed in text.

Mount Soledad fault
Country Club fault

Rose Canyon fault

Mission Bay fault

Texas Street fault

Old Town fault

Florida Canyon fault

San Diego

Chula Vista

San Ysidro fault

Los Buenaos fault

Tijuana

San Ysidro fault

San Ysidro fault

San Ysidro fault

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Tabulation of fault exposures shown by Treiman (1984).

LOCALITY NUMBER	TEXT PAGE	FAULT SEGMENT NAME	REMARKS	PRIMARY REFERENCE (see Treiman, 1984)
1	19	Rose Canyon fault	trench exposure at Spindrift Drive revealed late Quaternary displacement	Artin and Streiff, 1981b
2	21	Rose Canyon fault	unfaulted late Holocene sediment	Artin and Streiff, 1981b
3	19	Rose Canyon fault	strife measured in exposure near Ardath Road	Artin and Streiff, 1981b
4	20	Rose Canyon fault, splay	faulting exposed in cut for Ardath Road; road deformed by creep or incipient landsliding	Rockwell and Abbott, 1983
5a,b	21	Rose Canyon fault	trenches exposed unfaulted early Holocene sediment	a. Farrand and others, 1981 b. Farrand, personal communication, 1983
6	13, 19, 20	Rose Canyon fault	grading at Jutland Drive exposed San Diego Formation (Pliocene) east of fault; strife measured in fault plane	Hart and Farrand, 1981
7	21	Rose Canyon fault, possible branch	Quaternary displacement	Kies, 1979
8	21	Mount Soledad fault	attitude on fault	Kennedy and others, 1975b
9	22	Mount Soledad fault	possible evidence for no movement in 9000 years	Berggreen and Streiff, 1979
10	22	Country Club fault	attitude on fault in cut slope	Kennedy and others, 1975b
11	22	Country Club fault	faulting exposed in cut slope displaced San Diego Formation (Pliocene), Pleistocene rocks unfaulted	Kennedy and others, 1975b
12	22	Country Club fault	unfaulted Holocene sediments in trench near fault projection	Artin and Elder-Mills, 1982
13	23	Mission Bay fault, possibly related splay	late (?) Pleistocene sediments displaced	Melius, 1979
14	24	Mission Bay fault, possibly related splay	youngest documented displacement, 28,700 ± 1500 ybp or younger (late Pleistocene)	Liem, 1977
15	24	Old Town fault, branch	Lindavista Formation (Pleistocene), exposed in cut slope, is displaced by faulting	Kennedy and others, 1975b
16	25	Old Town fault(?), possibly related splay	cut slope exposes faulted late Pleistocene rocks	Farrand and Elliot, 1979
17	24	Old Town fault(?), possibly related deformation	Lindavista Formation (Pleistocene) is deformed	Kennedy and others, 1975b
18	25	Old Town fault	Lindavista Formation (Pleistocene) is displaced	Kennedy and others, 1975b
19	26	San Diego fault	trench exposed faulted late Pleistocene sediments	Elder-Mills, 1982
20	42	Coronado fault	trench exposed unfaulted Holocene (?) deposits	Artin and Streiff, 1981a
21	42	Coronado fault (?)	boring data suggests Pleistocene faulting	Crandall and Associates, 1980

SCALE 1:100 000



Interior—Geological Survey, Reston, Virginia—1976

See pl 2 for annotations

196-1